## OBSERVATIONS OF THE AMETHVST PVTHON (MOREIIAAMETHYSTINA) FEEDING ON RAINBOW

 BEE-EATERS (MEROPS ORNATUS). Mehtoirs of the Queensland Museum 3\&(2), 504. 1995:- Observations on feeding by arboreal snakes are poorly documented. Members of Morelia are primarily noctumal, rock inhabiting and/or' athoreal snakes that commonly bask during daylight hours, Amethyst pythons (Morela arterhystina) eat a wide variety of vertebrates (Cogger, 1992), including birds and mammals (Wilson \& Knowles, 1988)Amethyst pythons were observed esking rainbow boecakers (Morops ornaws, length $230-280 \mathrm{~mm}$ (Lowe, 1789) measured as the distance from the tip af the bill to the bp of the tail, rounded to the nearest 5 mm , and where a bill or tail is unusually long, as with the rainbow bee-eater, its form is incloded in the length) on Milman Island ( $11^{\circ} 10.3^{\prime} \mathrm{S}$, $143^{\circ} 00,8^{\circ} \mathrm{E}$ : Great Barrier Reef Marine Park Code 11-(007). a vegetated sand cay focated approximately 112 km southeast From Thursday Island, Tortes Strait and 45 km northeast from Orford Ness, Queensland, Australia.

Alt feeding observations took place between ()600h and 090013 on 19 March and 21 March, 1994. Up to four pythens had been observed simaltancously stretched out on the defolisted branches of Premna serratifolia, lirst on 10 March. and then 18 - 23 March. The snakes appeared camouflaged, their bodies curving so they blended with branches of the shrub.

The first observation was of an adult rainbow bee-eater (entended central tail feathers) within the coils of a pyition ai 0645 h on 19 March. The python moved approximarely 2 m down the branch before swallowing the bird. This sequence took approx imately 25 minutes. Then the snake moved back to the lop of the branch. Another rainbow bee-eater landed on the branch above the snake, but flew off as the python moved towards it The snake relreated down the branich (approximsutely 2 m ) and curled up in a fork in the shnub. The following day ( 20 March) the snake did not appear to move. On 27 March, at 0815 h the same python caught a juvenile tanbow bee-ealer (central tail feathers not extended). The snake swallowed this bird in 5.5 minuces. The snake was the same one obecrved on 19 March, bocause the bulge made from eating the first bird was still visible, and the sriake was on the same branch. After swallowing the juvenile bird, the snake slithered back up the branch and waited for 40 minutes, apparently trying to catch another bird. Even though other chinbow bec-eaters were flying around its head, the python did not catch any. Rainbow bee-eaters catch their prey (flying insects) by "hawking", retuming to perch and batter their prey belore ingesting it (Mac Donald, 1973). This method would bring the birds into contact with luanting snakes. White-breasted woodswallows (Arranus lewtorhynchus; length 170 180 m in), ycllow-bellied sunbirds (Nectarinia jugnkaris, length $110-115 \mathrm{~mm}$ ), and a spangled drongo (Cirurus brachaesux: length $280-320 \mathrm{~mm}$ ) (Lowe, 1989) all lansed nearby. These may also be preyed upon. The white-freasted woodswallows appeared to swoop au/near the snake io alarmi

Athough the-snake was nol caught and measurat, the sige of the pydron ( $1.25-1.50 \mathrm{~m}$ in tolal length) ahserved fecting on the rainbow bee-caners appeared to be in the smaller range for records on Milman Island. Six females measured had a total length ranging from 124.5-261.0cms and three unscxed. pythons measpred had a total length ranging freem 60,0 2200 k ml .

Rainbow bee-eaters are a migratory species in the westem South Pacific Ocean area. They move from their southem breeding areas in Australlia to over-winter in Torres Sirait and Papaa New Guines \{Blakers el al., 1984). Although the disIribution of rainhow bee-earers isdependent on the abundance

TAB[.E 1-Smmmary of Ancthyst Python (MoreMa amethystina) measurements collected fromsnakes caught on Milman Island, northern Great Barrier Reef, Queensland, Australia. Sex was determined by examination of spur size and allempted eversion of hemipeni. ? = Sex was not determined. Abbreviations: $\mathrm{Hl}=$ Headlength, $\mathrm{SVL}=$ Snout length, $V T L=V$ ent to tail length, TL=Total length. All measurements are in centimetres.

| Date | HL | SVL | VTL | TL | Sex |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 5 Feb 1992 |  |  |  | 60.0 | $?$ |
| 8 Feb 1992 |  | 145.0 | 28.0 | 173.0 | $?$ |
| 10 Feb 1992 |  | 223.0 | 38.0 | 261.0 | Female |
| 12 Feh 1992 |  | $150 . n$ | 31.0 | 181.0 | Female |
| 19 Feb 1992 |  | 185.0 | 35.0 | 220.0 | $?$ |
| TMar 1994 | 5.5 | 184.5 | 35.5 | 220.0 | Female |
| 10 Mar 1994 | 3.8 | 103.8 | 20.7 | 124.5 | Female |
| 17 Jan 1995 |  | 149.0 | 26.0 | 175.0 | Female |
| 19 Jan 1995 |  | 111.5 | 22.5 | 134.0 | Female |

of insects (Blakers ef al., 1984), it is nol known bow long the rainbow bee-eaters stay at Milman Island. The island supports a seasonal nesting colony of Torres Imperial Pigeons (Ducula bicolor, length $380-440 \mathrm{~mm}$ ) ( $\mathrm{King}, 1990$ ), as well as numer ous pairs of yellow-bellied sunbirds. All of the birds menlioned are small enough to be possible food sources for the snakes, although consumption of these other species has nol been observed. When rainbow bee-eaters are not present on Milman Island, the pythons must prey on other species. Becaase, thete are no mammals on Milman Island, considered a common prey for amethyst pythons (Cogger, 1992人 the pythons are probably feeding on other birds, incloding ground nesting species, found on the island.

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